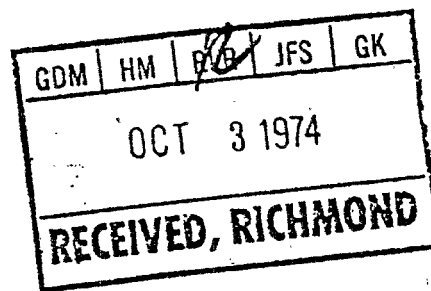


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9/23/74



TOXICOLOGY LABORATORY REPORT -- T- 4980
CAPTAN IMIDAN KARATHANE 12-9-1.5 WP

I. OBJECTIVE

To evaluate the toxicological aspects of this material.

II. MATERIALS

Captan Imidan Karathane 12-9-1.5 WP, a beige powder, was received from the RRC on 9/6/74.

III. SUMMARY

- A. Eye irritation classification: severe irritant
- B. Acute inhalation LC₅₀, rats,
mg/liter/hour: > 2.9

Submitted by

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A. EYE IRRITATION

TEST MATERIAL CAPTAN IMIDAN KARATHANE 12-9-1.5 WP T- 4980

Eye Irritation Classification: Severe irritant

The procedure employed is in accordance with the test for eye irritants outlined in the code of Federal Regulations (Part 191.12, Chap. 1, Title 21) for evaluating hazardous substances.

Six New Zealand rabbits in the 1.6-2.1 kg weight range were used as the test animals. The test material was placed in one eye of each animal by gently pulling the lower lid away from the eyeball to form a cup into which the test material is dropped. The lids were gently held together for three seconds and the animal released. The other eye, remaining untreated, served as the control. The eyes were observed at 24-, 48- and 72-hours following treatment and scored for irritation properties.

Quantity instilled into each test site: 10 mg

Corneal Damage: One rabbit had no corneal opacity at the 24-hour observation period, two rabbits had no corneal opacity 48-hours after treatment because of severe chemosis. The remaining rabbits had mild to severe corneal opacity at all observation periods except for one rabbit at the 7-day observation period.

Iritis: None.

Conjunctivae,

a) erythema: Rabbits had moderate to severe redness at the 24-, and 48-hour observation period and five rabbits had the same symptoms at the 72-hour and 7-day observation period.

b) chemosis: Rabbits had moderate to severe chemosis at the 24- and 48-hour observation period and five rabbits had the same symptoms at the 72-hour observation period and three rabbits had the same symptoms at the 7-day observation period.

c) discharge: Rabbits had moderate to severe discharge at the 24- and 48-hour observation period and five rabbits had the same symptoms at the 72-hour observation period, and two rabbits had the same symptoms at the 7-day observation period.

Signs of Remission: One rabbit had complete remission of any ocular damage by the 7-day observation period.

Additional Comments: None.

B. ACUTE RAT INHALATION

TEST MATERIAL Captan Imidan Karathane 12-9-1.5 WP T- 4980

LC₅₀ mg/liter/hour: > 2.9

Five male and five female Sprague-Dawley albino rats were exposed to the test material for one hour in a 32 liter, positive pressure inhalation chamber. Ten animals were used at each concentration level. The animals were observed for 14 days, after exposure, for signs of toxicity.

Method of generation: Wright's dust feed mechanism

Weight range of test animals: 200 grams

<u>Concentration level mg/liter/hour</u>	<u>2.9</u>
Mortality Ratio	0/10

Sign of Toxicity: All rats appeared normal during and after treatment.

Additional Comments: None.